

Amendments to the Claims:

The listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

1. (currently amended): An image processing method able to maintain the image display quality of signals transmitted from a transmitting system during a channel conversion from a first channel to a second channel, wherein a first image signal and a second image signal are respectively transmitted to the transmitting system from the first channel and the second channel, comprising the steps of:

sending a channel conversion request to the transmitting system;
controlling the transmitting system to stop transmitting the first image signal and start to transmit a preset image signal; and
stopping transmission of the preset image signal, and starting transmission of the second image signal.

2. (original): The image processing method as claimed in claim 1, wherein the step (C) further comprises the steps of:

determining whether the transmitting system is ready for the channel conversion from the first channel to the second channel; and
if the transmitting system is ready for the channel conversion, stopping transmission of the preset image signal, and starting transmission of the second image signal.

3. (original): The image processing method as claimed in claim 2, wherein the step (D) further comprises the step of:

detecting the stability of the second image signal by a detector, and converting the channel from the first channel to the second channel after the second image signal is stable.

4. (original): The image processing method as claimed in claim 2, wherein the step (D) further comprises the step of:

comparing the deviation among a plurality of continuous images of the second image signal, and converting the channel from the first channel to the second channel after the deviation is less than a predetermined value.

5. (original): The image processing method as claimed in claim 2, wherein the step (D) further comprises the step of:

converting the channel from the first channel to the second channel after transmitting the preset image signal for a period of time.

6. (original): The image processing method as claimed in claim 1, wherein the preset image signal has an image with a black background.

7. (original): The image processing method as claimed in claim 6, wherein the image with a black background has a prompting string to prompt channel conversion.

8. (original): The image processing method as claimed in claim 1 further comprises the steps of:

digitizing the first image signal and compressing the digitized first image signal with a predetermined compression method by the transmitting system; and
digitizing the second image signal and compressing the digitized second image signal with a predetermined compression method by the transmitting system.

9. (original): The image processing method as claimed in claim 8, wherein the predetermined compression method involves a “group of pictures” technique.

10. (currently amended): The image processing method as claimed in claim 8, wherein the predetermined compression method is ~~MPEG~~ developed by the ~~MPEG~~ MPEG (Moving Picture Experts Group).

11. (currently amended): A transmitting system, comprising:
a receiving module for receiving a channel conversion request;
an image encoding device for compressing a first image signal of a first channel and a second image signal of a second channel by a predetermined compression method, wherein the compressed first image signal and the compressed second image signal are selectively transmitted by the transmitting system;
a tuner for channel conversion from a the first channel to a the second channel, wherein a the first image signal and a the second image signal are respectively transmitted to the transmitting system from the first channel and the second channel;

a controlling device to control the tuner for channel conversion according to the channel conversion request, stopping transmission of the compressed first image signal and transmitting ~~the~~a preset image signal instead, and starting transmission of the compressed second image signal after stopping transmission of the preset image signal; and

a storage device in the transmitter for storing the preset image signal.

12. (original): The transmitting system as claimed in claim 11 further comprises a detector for detecting the stability of the second image signal, and the channel is converted from the first channel to the second channel after the second image signal is stable.

13. (original): The transmitting system as claimed in claim 11 further comprises a comparator for comparing the deviation among a plurality of continuous images of the second image signal, and the channel is converted from the first channel to the second channel after the deviation is less than a predetermined value.

14. (original): The transmitting system as claimed in claim 11 further comprises a timer for timing a period of time after starting transmitting the preset image signal, and the channel is converted from the first channel to the second channel after the period of time.

15. (original): The transmitting system as claimed in claim 11, wherein the preset image signal has an image with a black background.

16. (original): The transmitting system as claimed in claim 15, wherein the image with a black background has a prompting string to prompt channel conversion.

17. (currently amended): The transmitting system as claimed in claim 11, further comprises an analog-digital converter for digitizing the first image signal and the second image signal, wherein the image encoding device for compressing the digitized first image signal and the second image signal to the compressed first image signal and the compressed second image signal.

18. (original): The transmitting system as claimed in claim 17, wherein the predetermined compression method involves a “group of pictures” technique.

19. (currently amended): The transmitting system as claimed in claim 17, wherein the predetermined compression method is MPEG4 developed by the MPEG MPEG (Moving Picture Experts Group).

20. (new): The image processing method as claimed in claim 1, wherein the step (A) further comprises sending the channel conversion request to the transmitting system wirelessly.

21. (new): The transmitting system as claimed in claim 11, wherein the receiving module receives the channel conversion request wirelessly.

22. (new): The image processing method as claimed in claim 8, further comprising stopping compressing the digitized first image signal when stopping transmitting the first image.

23. (new): The transmitting system as claimed in claim 11, wherein the image encoding device stops compressing the digitized first image when stopping transmission of the first image signal.